T0807F 26S3B0BT

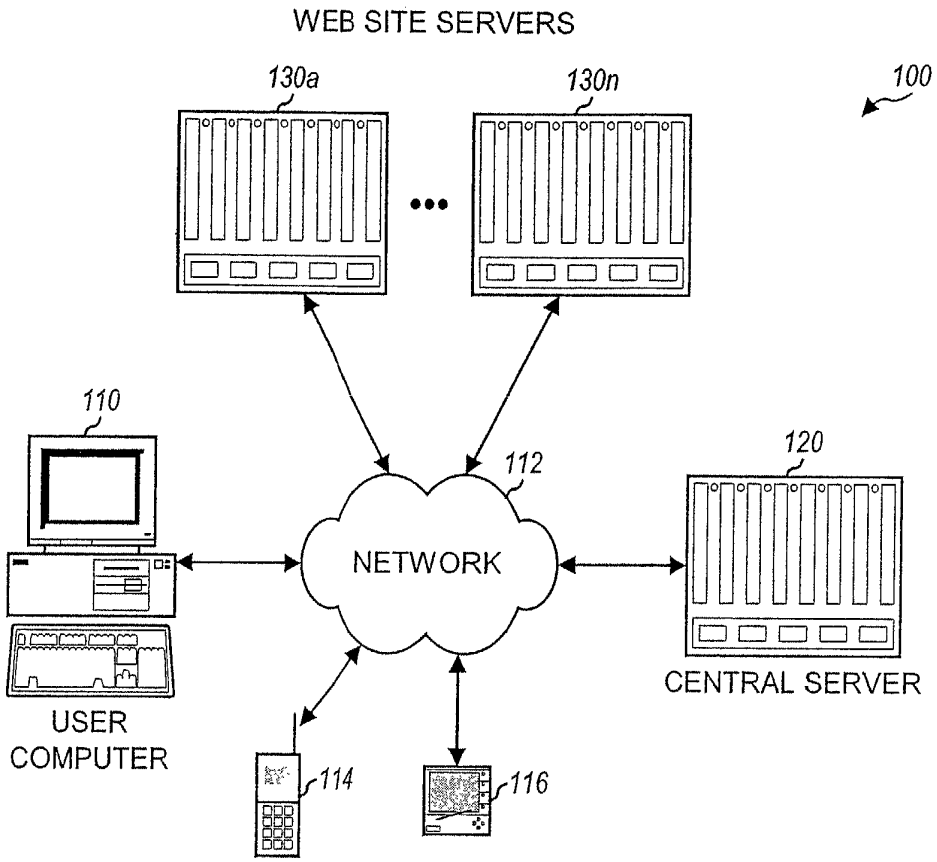

FIG. 1

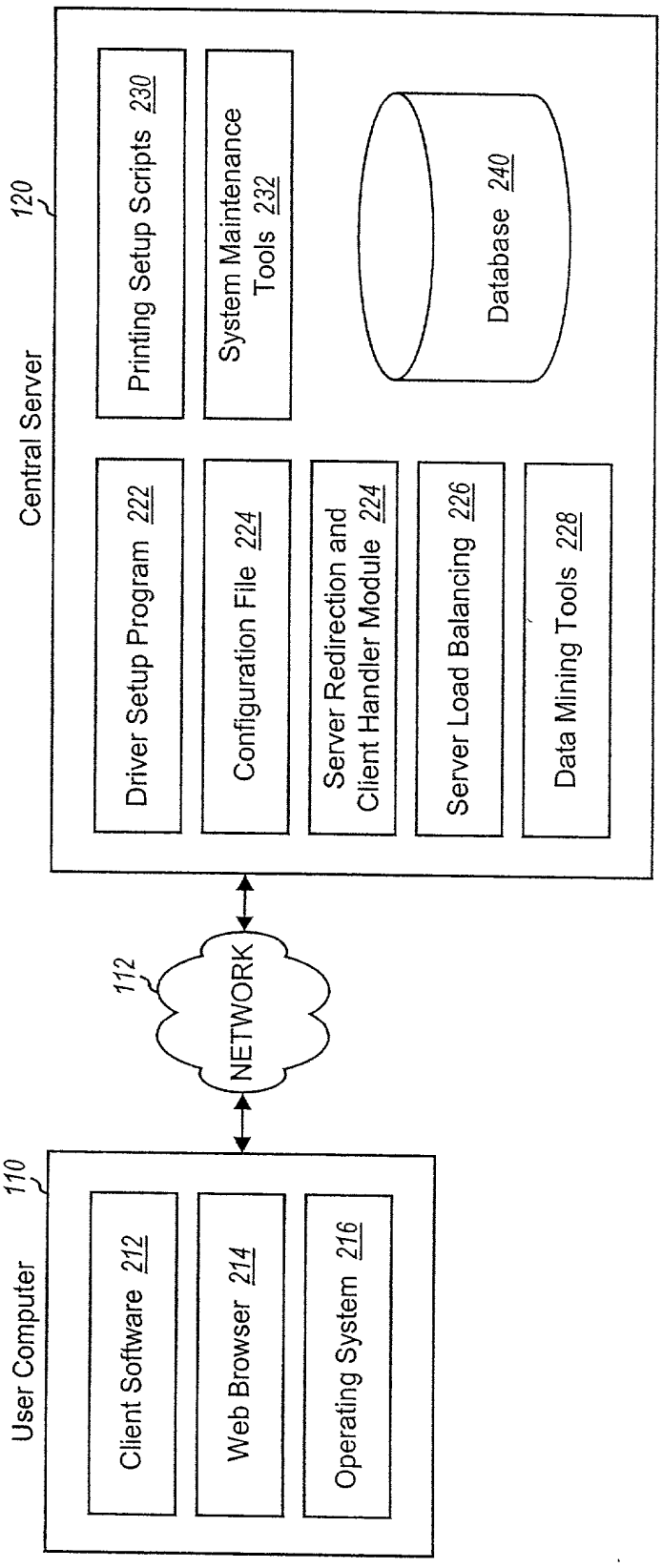
User Computer
110
Client Software 212
Web Browser 214
Operating System 216
112
NETWORK
Central Server
120
Driver Setup Program 222
Configuration File 224
Server Redirection and Client Handler Module 224
Server Load Balancing 226
Data Mining Tools 228
Printing Setup Scripts 230
System Maintenance Tools 232
Database 240

FIG. 2

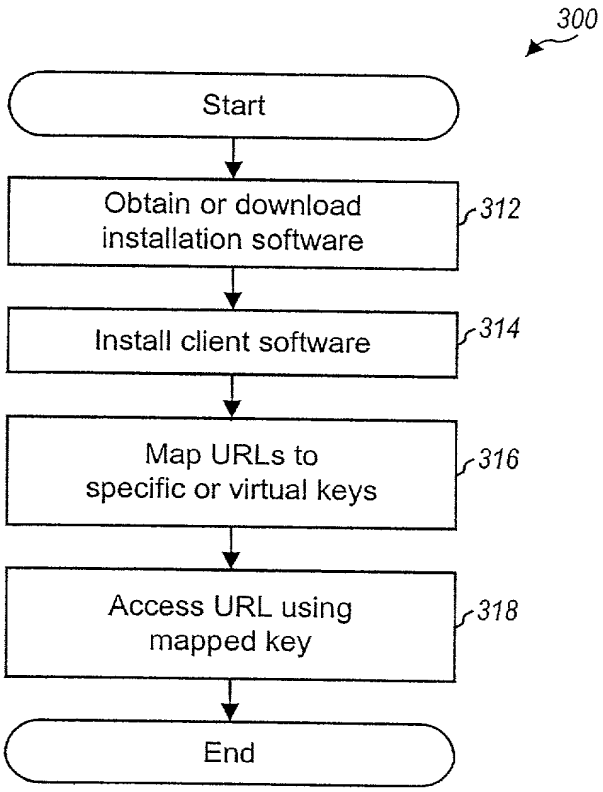

FIG. 3

Express Mail Label No. EV 339 933 934 US

400

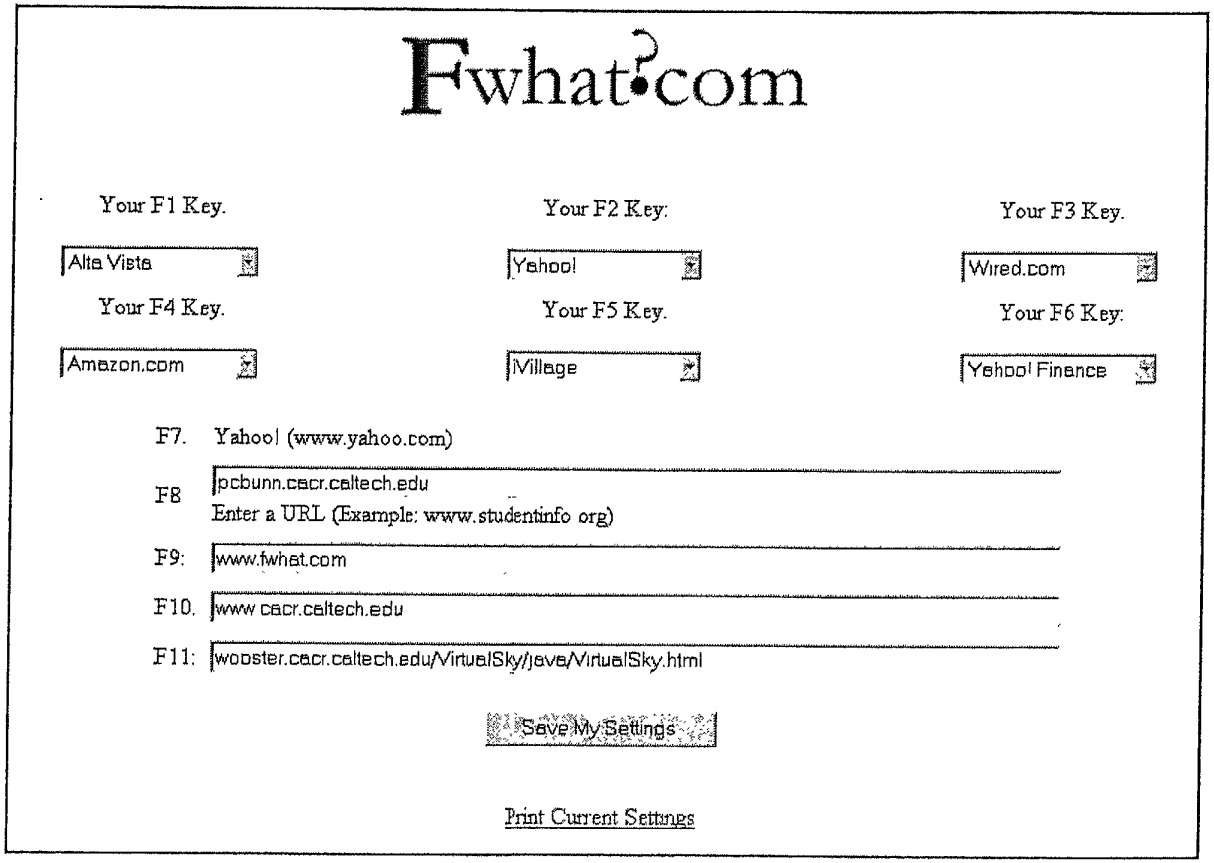
Fwhat?com
Your F1 Key.
Alta Vista
Your F2 Key:
Yahoo!
Your F3 Key.
Wired.com
Your F4 Key.
Amazon.com
Your F5 Key.
Village
Your F6 Key:
Yahoo! Finance
F7. Yahoo! (www.yahoo.com)
F8
pcbunn.cacr.caltech.edu
Enter a URL (Example: www.studentinfo org)
F9:
www.fwhat.com
F10.
www.cacr.caltech.edu
F11:
wooster.cacr.caltech.edu/VirtualSky/java/VirtualSky.html
Save My Settings
Print Current Settings

FIG. 4

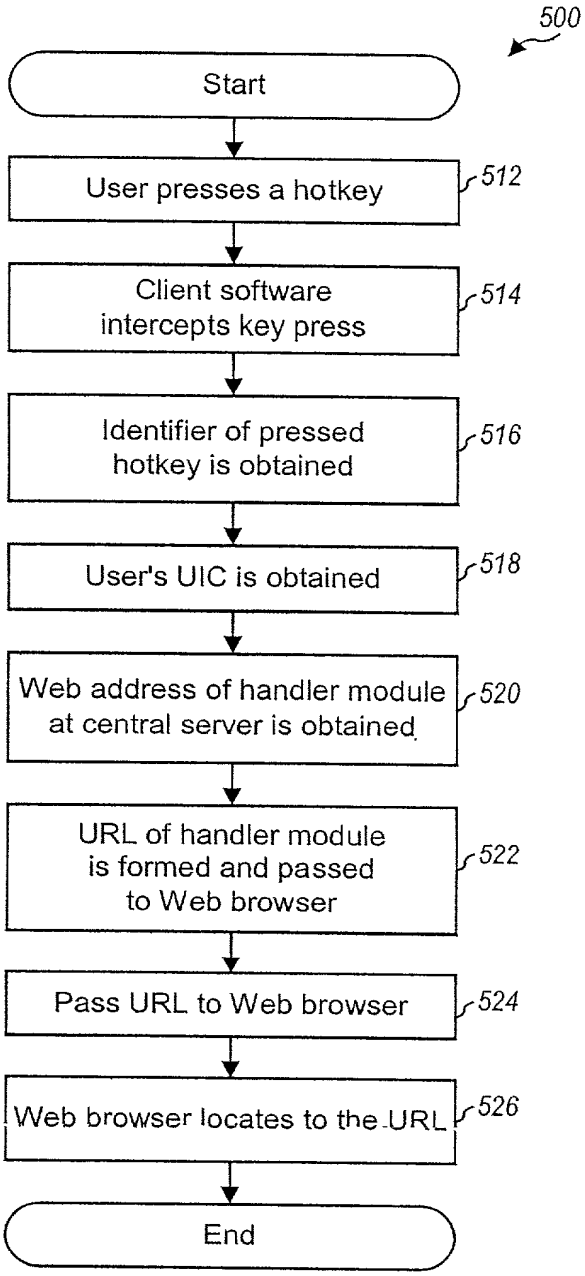
500
Start
User presses a hotkey
512
Client software intercepts key press
514
Identifier of pressed hotkey is obtained
516
User's UIC is obtained
518
Web address of handler module at central server is obtained
520
URL of handler module is formed and passed to Web browser
522
Pass URL to Web browser
524
Web browser locates to the URL
526
End

FIG. 5

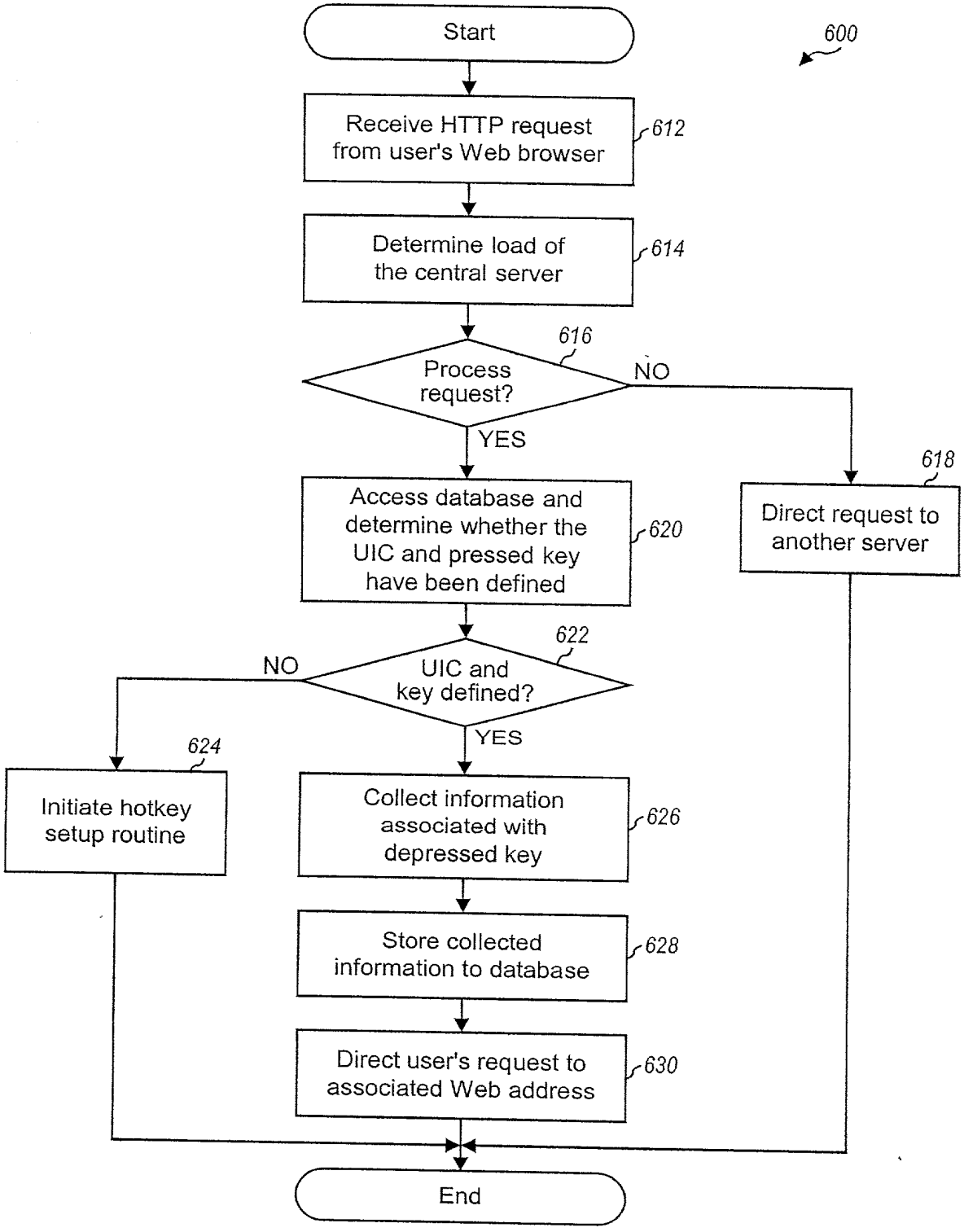
Start
600
Receive HTTP request from user's Web browser
612
Determine load of the central server
614
616
Process request?
NO
YES
618
Direct request to another server
Access database and determine whether the UIC and pressed key have been defined
620
622
UIC and key defined?
NO
YES
624
Initiate hotkey setup routine
Collect information associated with depressed key
626
Store collected information to database
628
Direct user's request to associated Web address
630
End

FIG. 6

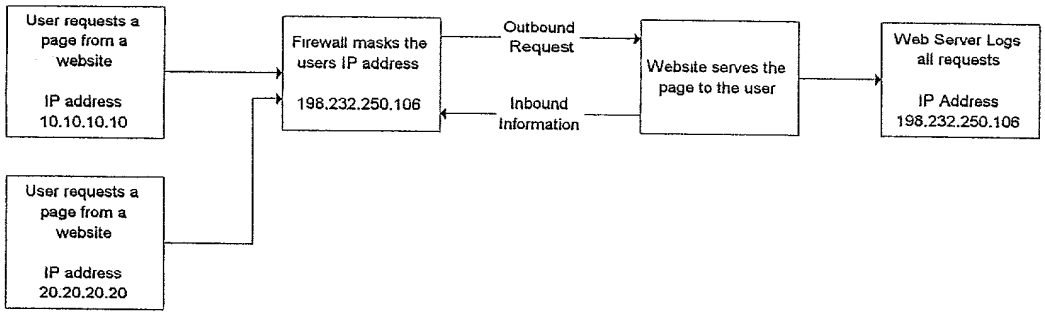
User requests a page from a website
IP address 10.10.10.10
User requests a page from a website
IP address 20.20.20.20
Firewall masks the users IP address
198.232.250.106
Outbound Request
Inbound Information
Website serves the page to the user
Web Server Logs all requests
IP Address 198.232.250.106

FIG. 7A

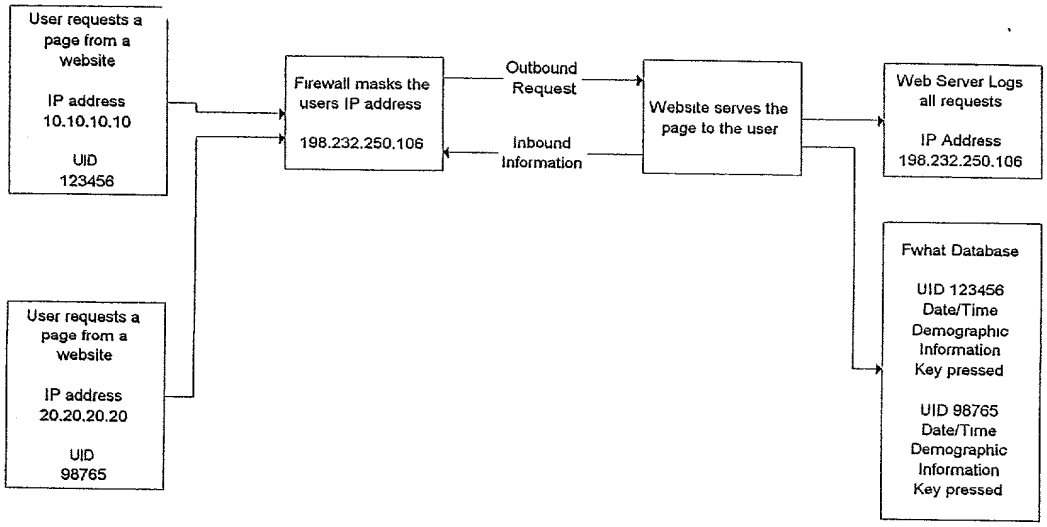
User requests a page from a website
IP address 10.10.10.10
UID 123456
User requests a page from a website
IP address 20.20.20.20
UID 98765
Firewall masks the users IP address
198.232.250.106
Outbound Request
Inbound Information
Website serves the page to the user
Web Server Logs all requests
IP Address 198.232.250.106
Fwhat Database
UID 123456
Date/Time
Demographic Information
Key pressed
UID 98765
Date/Time
Demographic Information
Key pressed

FIG. 7B

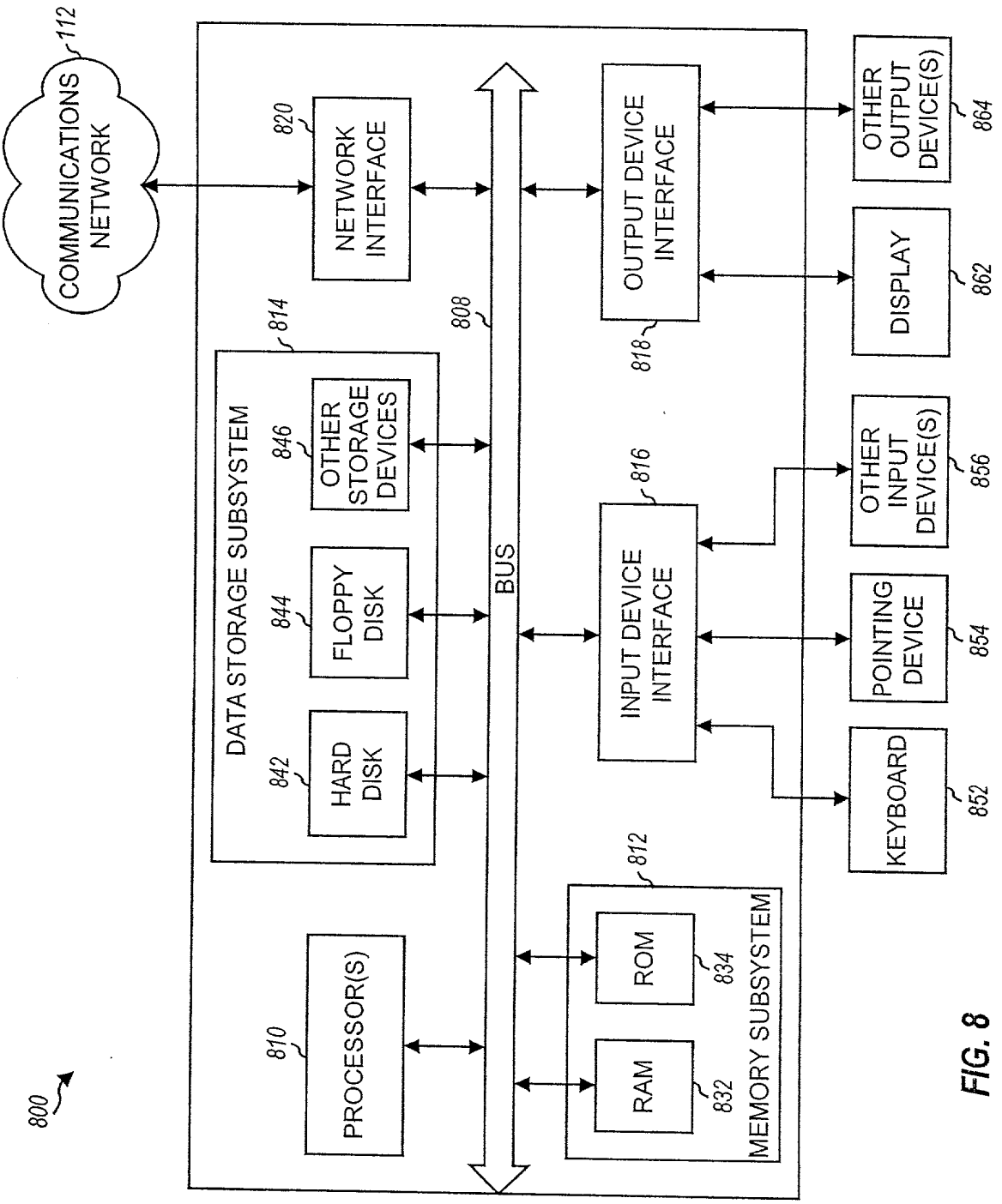
800
COMMUNICATIONS NETWORK
112
NETWORK INTERFACE
820
808
OUTPUT DEVICE INTERFACE
818
OTHER OUTPUT DEVICE(S)
864
DISPLAY
862
814
DATA STORAGE SUBSYSTEM
OTHER STORAGE DEVICES
846
FLOPPY DISK
844
HARD DISK
842
BUS
INPUT DEVICE INTERFACE
816
OTHER INPUT DEVICE(S)
856
POINTING DEVICE
854
KEYBOARD
852
PROCESSOR(S)
810
812
ROM
834
RAM
832
MEMORY SUBSYSTEM

FIG. 8